

# ABSTRACT

A display system 10 including liquid crystal eyewear 22 for producing a three dimensional (3-D) or stereoscopic image (i.e., an image having depth) is provided by liquid crystal shutters (41L, 41R) in the liquid crystal eyewear which are used to view two dimensional images. The shutter alternates between transmissive and non-transmissive states in order to present different images to the right and left eyes thereby presenting the viewer with a three dimensional image. The synchronization and coordination of the shutters includes a delay (65,  $t_d$ ) to accommodate the switching time and latency of the liquid crystal eyewear and signal transmission. The liquid crystal eyewear may be connected into the display system in a wired (12a) or wireless (12b) manner. Wireless connection can be made with infrared light emitting diodes (21b, 21c, 71) transmitting infrared light to the eyewear. The infrared light generated is sufficiently spaced apart and has a duration sufficiently short to avoid interfering with other infrared equipment such as remote controls that use infrared signals lasting hundreds of milliseconds.

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